Best Value Gigabit Connectivity

Typical Applications

- Business Broadband
- Video Surveillance Connectivity
- Wi-Fi Backhaul
- LAN to LAN Connectivity
- Gigabit-To-The-Home (GTTH)

Extend Your Network Profitably

The EtherHaul-1200TX radio delivers up to 1Gbps (aggregated) over the uncongested 71-76GHz band. Integrators and enterprises can now deploy affordable, interference-free, point-to-point connectivity to futureproof their networks.

Field Proven Best Seller

Siklu's award-winning EtherHaul™ products, are the world's bestselling millimeter wave radios. Tens of thousands of units have been globally deployed, and perform reliably in diverse weather conditions.

Easy Spectrum Acquisition in Urban Areas

The 5GHz-wide E-band spectrum is uncongested, even in dense urban areas. The combination of abundant spectrum and high-gain, pencil beam antennas guarantees channel availability everywhere, and maximizes spectrum re-use. The E-band also has low licensing fees and quick acquisition procedures.

Asymmetric Capacity Optimization

Operating in TDD enables setting-up asymmetric capacity configuration. Upload/download rates are easily matched to applications, and spectrum usage is optimized.

Small Size, Easy to Deploy & Manage

The all-outdoor radio has a small footprint that eases site acquisition. Its light weight and small size ensure swift and straightforward installations, while the user-friendly web GUI manages local and remote units and can copy configuration changes automatically to the remote unit.

Versatile Integrated Toolkit

Siklu listens to customer pain points, and has combined the powerful network processor with the market's most advanced all-silicon RF circuit to ensure that service providers save OPEX:

- IPERF – Integrated TCP and UDP load tester to ease commissioning and remote trouble-shooting procedures.
- Spectrum Analyzer – Eases operational channel selection and faults analysis.
- Zero-touch startup – reduces installation time, eliminates human errors.

Ground Breaking All-Silicon Technology

The EH-1200TX is based on Siklu's advanced integrated silicon technology for reducing size and cost and increasing reliability. The result is a 90-year MTBF necessitating less site visits, decreased installation fees and a fast ROI with minimized TCO - all creating an unbeatable price/throughput

Carrier Grade Performance over Wireless

High throughput and low latency are combined to deliver fiber-like performance. Siklu's EH-1200TX incorporates QoS-aware, hitless adaptive bandwidth coding and modulation for high availability. The integrated L2 switch includes extra ports that enables implementation various topologies (cascade or ring) without the need for additional equipment at the hub or drop locations, and the PoE-Out feature powers a collocated radio, camera, Wi-Fi AP etc.

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EtherHaul™-1200TX Specifications

Frequency, Duplexing	71-76 GHz, TDD
Modulation	QPSK-1/QPSK-2/QPSK-3/QAM16/QAM64
Adaptive rate	Hitless adaptive bandwidth, coding and modulation boosting system gain by 25dB; with ATPC
Channels widths	125/250/500MHz
Throughput	Up to 1000Mbps aggregated (with asymmetric/symmetric downlink/uplink rate)
Link budget (BER=10^{-6})	176dB (including 1ft antenna gain); 190dB (including 2ft antenna gain)
Interfaces	4x GE ports: 2x copper + 2x SFP slots
Antenna	1ft (31cm) 43dBi antenna gain; 0.5° beam width 2ft (65cm) 50dBi antenna gain; 1° beam width
Ethernet features	IEEE 802.1d Transparent bridging Out of the box 8 levels QoS-aware forwarding Smart Ethernet Pipes mode MAC learning 16K byte jumbo frames
Encryption	AES 128-bit and 256-bit
Management, provisioning & commissioning	Web GUI (one click management of local & remote units) Embedded CLI, SNMPv2/3, in-band, out-of-band Zero touch turn-up, TACACS+, RADIUS, 30-day statistics Spectrum analyzer IPERF TCP/UDP capacity tester
Topologies	Ring, daisy-chain, mesh
Conformance	Radio: USA 47CFR101.115 & ETSI EN 302 217 EMC: USA FCC 47CFR.part 15 & ETSI EN 301 489; Safety UL/EN 60950
Environmental	Operating temperature: -45° ÷ +55°C / -49° ÷ +131°F Ingress Protection Rating - IP67
Power supply	PoE+ In (IEEE 802.3at) DC input: 36+57VDC (flexible grounding) Power supply input redundancy
PoE-Out	26W (IEEE 802.3at)
Power Consumption	26W (without PoE-Out); up to 60W (PoE-Out enabled)
Dimensions	ODU: 24cm x 22.5 cm x 5 cm / 9.7" x 8.9" x 2" (H x W x D) ODU + 1ft ant.: 31 cm x 13 cm / 12.2" x 4.3" (Dia. x Depth) ODU + 2ft ant.: 65 cm x 37 cm / 25.6" x 15.35" (Dia. x Depth)
Weight	ODU + 1ft antenna: 4 kg / 7.7 lbs ODU + 2ft antenna: 9.4Kg / 20.7 lbs

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